



**Remarks: Attention: Isaac Hamilton, Patent Examiner**

**Request reconsideration of Application 10/822,276**

**First Filed 04/12/2004**

**James Alfred White  
First Named Inventor**

**The CLAIMS for this application have been rewritten and are being resubmitted in response to Examiner Review and the objections numbered 1. Thru 5.**

**Claim Objection Response:**

**1. Periods have been changed to semicolon and only one period used at the end of the claim.**

**Line 9 changed "a" to "an".**

**Line 7 changed "sharpened one" to "sharpened on one".**

**2. Claim rewritten to clarify what is regarded as the Invention.**

**3. Claim rewritten to clarify**

**Line 15 Reference to "a feed controlled rotary and forward motion".**

**Line 22 Reference to "it".**

**Line 9 Reference to "the spindle drive".**

**Line 12 Reference to "the pilot".**

**Line 19 Reference to "the drive nut".**

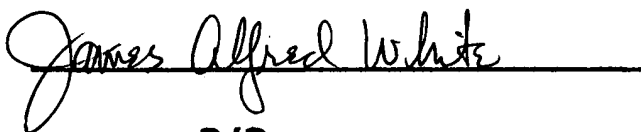
**Line 23 Reference to "the drive support".**

**4. The design and development of the apparatus of the invention is described in the background of the invention. Over a 2 year period several prototypes with many design changes to their component parts were fabricated, assembled and tested. The final performing apparatus was then submitted for patent approval. All such action occurred prior to any knowledge of the existence of any prior state of the art or the Mason or Waller patents cited.**

**The apparatus of the invention has the blade angled at 20 degrees and differs from Mason 2,489,581 which has "the blade arranged at a slight angle to a transverse plane corresponding substantially to the pitch of the screw thread".**

**The apparatus of the invention differs in thread form from Mason 3,211, 202. Mason 202 is a motor driven device and requires an acme or square type thread to be driven by the gear reducer. The apparatus of the invention utilizes a threaded spindle American Standard Thread Form. The simplified design of the apparatus of the invention permits the use of this thread form and it is functional due to the method of actuating the forward motion with manual pressure on the drive nut. Devices of the prior art as Mason 3,211,202 are generally complex and expensive with the price of such apparatuses being prohibitive for purchase by an ordinary consumer (household). The apparatus of the invention submitted for patent is simple in design, easy to construct, simple in operation and relatively low in cost.**

**Reconsideration of the Application is respectfully requested.**

A handwritten signature in cursive script, reading "James Alfred White", is written over a horizontal line.



## CLAIMS CONTINUED

WITH A DRIVE NUT ASSEMBLED TO IT,  
a drive nut guide <sup>POSITIONS</sup> ~~holding~~ the drive nut  
ADJACENT TO THE DRIVE SPINDLE AND APPLIED MANUAL PRESSURE ON  
~~positions and actuates manually~~ the drive nut ~~to~~  
engage <sup>NUT THREADS TO THE DRIVE SPINDLE THREADS THROUGH A WINDOW</sup> the drive <sup>OPENING IN</sup> ~~spindle~~ to cause forward motion <sup>THE DRIVE</sup>  
of the <sup>ROTATING</sup> drive spindle, <sup>THE DRIVE SPINDLE</sup> it being assembled internal <sup>SUPPORT,</sup>  
to the drive support;

WITH FOUR FLAT TEETH OF  $\frac{7}{16}$  INCH LENGTH IS  
a ~~four toothed~~ driver <sup>ASSEMBLED</sup> located at the forward end  
of the drive spindle and secured by a lock nut ~~X~~,  
the driver penetrates <sup>A</sup> the potato and transfers  
the forward and rotary motion of the hand  
cranked drive spindle to the potato thus forcing  
it into the sharp edge of the cutting blade ~~X~~;

a base for mounting the blade support and drive  
support sub-assemblies <sup>UTILIZES</sup> ~~using~~ four rubber support  
legs and two <sup>METAL SPRING TYPE</sup> counter stop arms to stabilize the  
apparatus in use ~~X~~ ON A TABLE OR COUNTER TOP. DURING USE  
OF THE APPARATUS THE SUPPORT LEGS AND COUNTER STOPS PROVIDE A  
MEANS BY WHICH THE APPARATUS REMAINS STATIONARY ON A COUNTER  
TOP OR TABLE WITH DOWNWARD LEFT HAND PRESSURE AND FORWARD  
RIGHT HAND CRANKING PRESSURE DURING CUTTING OF A POTATO  
OF MAXIMUM SIZE 50 ~~15/16~~ COUNT, SUCH AVERAGE SIZE APPROXIMATING  
6 AW)  $\frac{1}{2}$  INCHES LENGTH AND 3 AND  $\frac{1}{2}$  INCHES DIAMETER AND  
REQUIRING A SIGNIFICANT TORQUE TO ACCOMPLISH THE SPIRAL SLICE  
CUT, AND AVOIDING THE USE OF CLAMPS OR SUCTION CUP DEVICES  
FOR THE APPARATUS TO REMAIN IN A STATIONARY POSITION, AND  
ADDITIONALLY THE COUNTER STOP ARMS PREVENT THE CRANK FROM  
CONTACTING THE COUNTER TOP OR TABLE ON WHICH IT IS POSITIONED.

### 3. VERSION WITH MARKINGS TO SHOW CHANGES MADE



#### CLAIMS

What I claim is:

~~THE INVENTION IS A MANUAL~~ <sup>USE BY AN OPERATOR</sup>  
1. An apparatus <sup>TO SLICE</sup> for cutting a potato into a <sup>UNIFORMLY</sup> thin

continuous spiral slice, <sup>THE SLICE FOR FRYING AS A POTATO CHIP WITH</sup> comprising: <sup>THE APPARATUS REQUIRING</sup>

a fixed vertical blade attached to a blade <sup>BOTH HANDS TO OPERATE TO</sup> support, and angled horizontally <sup>SAFELY CUT THE POTATO SLICE,</sup> from ~~15 degrees~~ <sup>WITH BOTH HANDS BEING AWAY</sup>

<sup>THE BLADE SUPPORT BEING ATTACHED TO A BASE</sup> to ~~25 degrees~~ <sup>FROM THE SHARP BLADE AND THE</sup> from perpendicular to the

<sup>20 DEGREES</sup> centerline of the drive spindle ~~with 20 degrees~~

~~being optimal~~ with the blade sharpened one side <sup>ON</sup> for cutting<sup>o</sup>;

<sup>N</sup> an adjustable pilot pin extending through a hole in the blade, <sup>THE PILOT PIN BEING</sup> in alignment with the drive

spindle centerline and secured in its adjusted

position by a lock nut<sup>THE FARTHEST END OF THE PILOT PIN BEING</sup> ~~the pilot to position~~ <sup>VT HREAD CONNECTED TO THE BLADE SUPPORT AND THE</sup>

<sup>AND POSITION A</sup> ~~and support~~ the potato at the immediate cutting <sup>NEAREST END OF THE PILOT PIN FUNCTIONING TO</sup>

edge of the blade, <sup>AND WITH THE PILOT PIN ADJUSTED TO CONTACT</sup> AND WITH THE PILOT PIN ADJUSTED TO CONTACT THE FORWARD END OF THE DRIVE SPINDLE AND PREVENT THE DRIVER TEETH FROM CONTACTING THE BLADE AT THE END OF THE SLICE;

A DRIVE SUPPORT WHICH IS ATTACHED TO THE BASE, SERVES AS A MEANS FOR POSITIONING THE DRIVE SPINDLE ~~a feed controlled rotary and forward motion~~

WITH THE CENTERLINE OF THE DRIVE SPINDLE <sup>A MEANS FOR</sup> ~~through~~ manual cranking <sup>WITH A CRANK HANDLE ON THE END</sup> of a ~~3/8" - 16~~ threaded, AMERICAN STANDARD UNIFORM THREAD FORM 3/8 INCH 16 THREADS PER INCH spindle, to produce a continuous spiral slice <sup>OF APPROXIMATING</sup> .0625 inch thickness. <sup>IN A CLOCKWISE DIRECTION, ROTATING A POTATO ENGAGED BY THE</sup> <sup>TEETH OF A DRIVER ON THE SPINDLE END WHICH ENGAGES THE</sup> <sup>NEAREST END OF THE POTATO, AND THE</sup> <sup>14/16</sup> POTATO SUPPORTED BY A PILOT IN THE POTATOES FARTHEST END, AND WHICH PRODUCES A ROTATION OF SAID POTATO AND LONGITUDINAL MOTION IN A FORWARD DIRECTION WITH POTATO CONTACTING A FIXED BLADE